ENGLISH ABSTRACT FOR DE2018353 (FR2043403)

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WPAT - @Thomson Derwent
Accession Nbr :
  1970-79352R [43]
Title :
 Electroluminescent device for converting in - fr red radiation visible radiation
Derwent Classes :
  L03 U14 X25 X26
Patent Assignee :
  (AMTT ) WESTERN ELECTRIC CO INC
Nbr of Patents :
  8
Nbr of Countries :
 7
Patent Number :
  DE2018353
            A 0
                           DW1970-43 *
  NL7005417
               A 0
                           DW1970-43
  FR2043403
               A 0
                           DW1971-17
  US3621340
               A 0
                           DW1971-49
  CA-908970
               A 0
                           DW1972-38
  GB1317731
               A 0
                           DW1973-21
  DE2018353
               в 0
                           DW1973-26
  JP73042392 B 0
                           DW1973-50
Priority Details :
  1969US-0816764 19690416
IPC s :
 H05B-033/16
Abstract :
  DE2018353 A
  Infra red radiation falling onto a crystalline phosphor is converted
  into visible radiation without the application of a voltage.
  The phosphor is a stoichiometric mixture of oxyhalide crystals of the
  form M1R4, M2X2 where M1 is a monovalent metal and M2 is a divalent
  metal. The mixture must contain 5% of the cation Yb+++. When the
  phosphor is irradiated with infra red containing the absorption spectrum
  of ytterbium, visible light is emitted. The conversion uses two energy
  levels in the phosphor layer, producing different emission waves. The
  phosphor mixture can also contain the ion pairs YbEr, YbHo and YbErHo
  all as trivalent cations where the erbium is present at 1/16% and the
  holmium as 1/50% of the unit cell group.
Manual Codes :
  CPI: L03-D04
Update Basic :
  1970-43
Update Equivalents :
  1970-43; 1971-17; 1971-49; 1972-38; 1973-21; 1973-26; 1973-50
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